

Jotafloor Anti-Static

Product description

This is a two component amine cured electrically conductive epoxy coating. It helps in discharge of static electricity and is used for floors where an anti-static surface is required. It is self smoothing, easy to apply and can be easily cleaned leaving a hygienic surface.

Typical use

Jotafloor Antistatic is designed to be used as electrically conductive topcoat. It is suitable for floor of industrial or commercial locations where an anti-static environment is required. It is most recommended for interior surfaces of clean rooms, electronic factories, hospital, computer room, printing factories, pharmaceutical factories and other factories and locations dealing with inflammable gases or liquids.

Approvals and certificates

Determination of Compressive Strength - ASTM C579 and BS 6319-2
Determination of Tensile Strength - ASTM C307
Determination of Flexural Strength - ASTM C580 and BS 6319-3
Determination of Taber Abrasion (1000 Cycles) - ASTM D4060:2010
Determination of Surface to Surface Resistance - ESD STM 7.1 and IEC 61340-5-1
Determination of Surface to Ground Resistance - ESD STM 7.1 and IEC 61340-5-1
Determination of System Resistance - ESD STM 97.1 and IEC 61340-5-1
Determination of Body Voltage Measurement - ESD STM 97.1 and IEC 61340-5-1

All mechanical tests were carried out at 23 ± 2 °C and $60 \pm 5\%$ RH (Relative Humidity). For more details, refer to the test certificate.

The electrical performance of the product was tested at 23 ± 2 °C and at relative humidity of 25% and 50%

For details about chemicals, refer to the test certificate.

Additional certificates and approvals may be available on request.

Colours

According to colour card

Inherent properties of some of the additives in this product limits the exact colour matching. In light shades and some bright shades this effect is significant.

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	95 ± 2 %
Gloss level (GU 60 °)	ISO 2813	Gloss (Above 70)
Flash point	ISO 3679 Method 1	100 °C
Density	calculated	1.3 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	30 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.

All data is valid for mixed paint.

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	1500 - 2000 µm
Wet film thickness	1600 - 2100 µm
Theoretical spreading rate	0.6 - 0.5 m ² /l

Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces and Concrete	Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R-97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203	Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R-97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203

Laitance deposits are best removed by Planetary diamond disc grinder or by captive blasting followed by vacuum cleaning to remove dust debris. For old concrete, Jotun technical team should visit the site and appropriate surface preparation methodology should be recommended and that is to be followed.

Application

Application methods

The product can be applied by

Trowel: Recommended

To avoid air bubbles, it is very important to pierce the coating with a spiked roller when desired film thickness is achieved. While spike rolling, 1st pass should be given like it will assist the flow of the material & will remove trowel marks. subsequent pass should be given with light pressure to bring the resin on top.

Conditions during application :

The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

This product should not be applied on to the surfaces which are known to, or likely to suffer from, rising dampness, potential osmosis problems or have a relative humidity greater than 80% as measured in accordance with BS 8203 Appendix A.

Product mixing ratio (by volume)

Jotafloor Anti-Static Comp A	2.8 part(s)
Jotafloor Anti-Static Comp B	1 part(s)

No part mixing of this product is allowed. Use a slow speed drill and mixing paddle.

The temperature of the base and curing agent should be 18°C or higher when the paint is mixed.

Component A should be thoroughly stirred before Component B is mixed. Mix both the components using a slow speed drill and mixing paddle for 2 minutes. The entire content should be poured on to a third container and edges of the container should be scrapped. Mix the material for an additional 20 seconds. The mixed material should be given an induction time of 3 minutes before application. Do not add solvent thinners at any time

Provide adequate protection around the mixing areas to prevent contamination of the concrete underneath. A plastic sheet or cardboard should be placed to protect the floor around the mixing areas. Cover the prepared substrate before application with a plastic sheet to avoid spilling of materials to prevent outgassing and bubbling. Avoid mixing under direct sunlight.

A slow speed mechanical mixing agitator with a speed of 300- 400 rpm shall be used for mixing.

Thinner/Cleaning solvent

Cleaning solvent : Jotun Thinner No. 17

Thinner not to be used to dilute the product.

Drying and Curing time

Substrate temperature	15 °C	23 °C	40 °C
Surface (touch) dry	48 h	20 h	7 h
Walk-on-dry	48 h	24 h	8 h
Dried/cured for service	10 d	7 d	24 h

** overcoating is not applicable for this product*

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Induction time and Pot life

Paint temperature 23 °C

Pot life 30 min.

Product compatibility

Previous coat: Jotafloor Anti-Static Primer

Recommended Systems

Jotafloor Sealer HS	100 mic WFT x 2 coats
Copper tape at periphery of the substrate	
Jotafloor Anti-Static Primer	100-150 mic WFT x 1 coat
Jotafloor Anti-Static	1500-2000 mic WFT x 1 coat

The coating system should be applied as per the recommendations above. Due to the nature of the raw materials used in the product which provide electrical conductivity, surface irregularities like small pinholes and slight trowel marks might be possible. This has no influence on the function and performance of the coating.

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor Anti-Static Comp A	13.3	20
Jotafloor Anti-Static Comp B	4.7	5

The volume stated is for factory made colours. Note that local variants in pack size and filled volumes can vary due to local regulations.

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C

Jotafloor Anti-Static Comp A	12 month(s)
Jotafloor Anti-Static Comp B	12 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., and application quality. Contact your local Jotun office for further information.

Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.
